REPORT

NMTBA
The Association For Manufacturing Technology

Direct Dial: (703) 827-5260

STATISTICS

No. 50-90 April 18, 1990

U.S. FOREIGN TRADE -- JANUARY 1990

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY
(Millions of U.S. Dollars)

	Jan. 1990	Dec. 1989	% Change Dec.-Jan.	Year to Date '90	Year to Date '89	% Change '89-'90
METAL CUTTING MACHINE TOOLS						
Imports	$173.5	$155.1	11.9%	$173.5	$146.2	18.7%
Exports	$ 61.2	$ 53.1	15.3%	$ 61.2	$ 37.1	65.0%
Balance	($112.3)	($102.0)	10.1%	($112.3)	($109.1)	2.9%
METAL FORMING MACHINE TOOLS						
Imports	$ 42.6	$ 44.0	(3.2%)	$ 42.6	$ 50.5	(15.6%)
Exports	$ 41.8	$ 41.4	1.0%	$ 41.8	$ 32.1	30.2%
Balance	($ 0.8)	($ 2.6)	(69.2%)	($ 0.8)	($ 18.4)	(85.9%)
MACHINE TOOL TOTAL						
Imports	$216.1	$199.0	8.6%	$216.1	$196.6	9.9%
Exports	$103.1	$ 94.5	9.1%	$103.1	$ 69.2	49.0%
Balance	($113.0)	($104.5)	8.1%	($113.0)	($127.4)	(11.3%)
NUMERICALLY CONTROLLED MACHINE TOOLS						
Imports	$119.0	$111.4	6.8%	$119.0	$ 97.2	22.4%
Exports	$ 36.0	$ 22.7	58.6%	$ 36.0	$ 15.6	130.8%
Balance	($ 83.0)	($ 88.7)	(6.4%)	($ 83.0)	($ 81.6)	1.7%

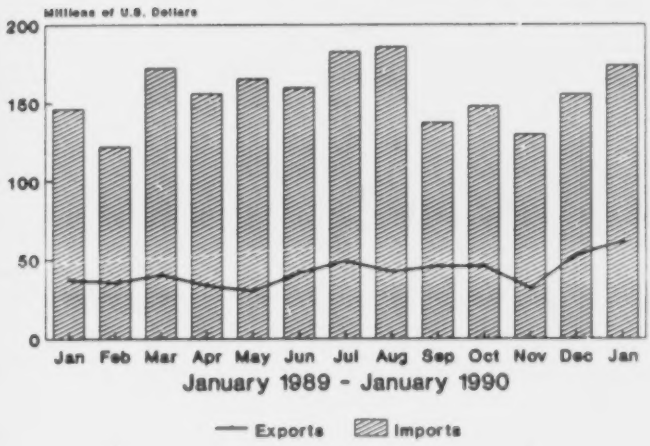
Note: Numerically controlled machine tools is a subgroup of the machine tool total. NA = not available; ( ) denotes negative. Individual items may not add up to totals due to rounding. Because of data revision, aggregate import and export data for "other manufacturing technology" are unavailable this month, but will be available next month.

• In January 1990, total machine tool exports were $103.1 million, the highest monthly total since May 1981. The ratio of exports to imports in January (47.7%) was the highest since December 1983. Exports of NC machines ($36.0 million) were at their highest levels since collection of this data began in January 1989.

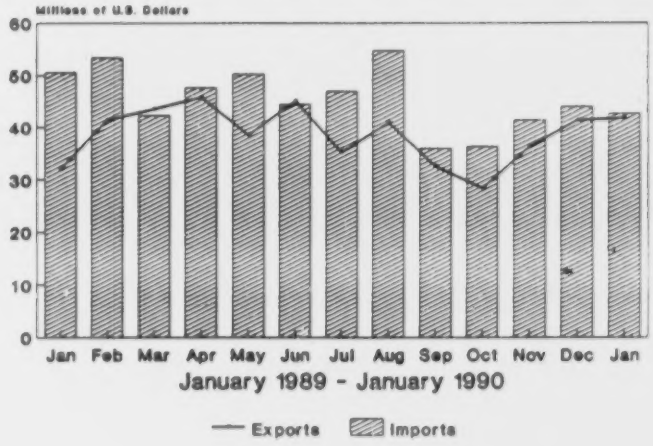
• Imports of $216.1 million in January were the sixth highest monthly total ever and were 9% higher than the December total. Japan supplied $115.8 million, or 54%, of the January total, up 20% from Japan's $96.2 million recorded in December.

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



METAL CUTTING

Exports

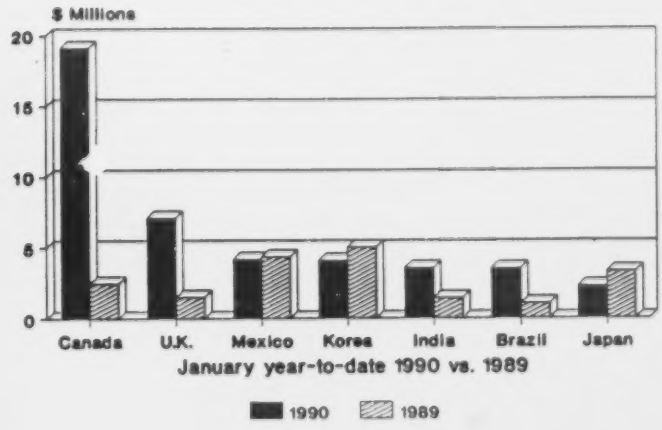
• Exports of metal cutting machine tools totalled $61.2 million in January 1990, up from $53.1 million in December 1989 and the highest monthly total since July 1981.

• The leading export markets were Canada ($19.1 million), the United Kingdom ($7.1 million), Mexico ($4.2 million), South Korea ($4.1 million), India ($3.5 million) and Brazil ($3.5 million).

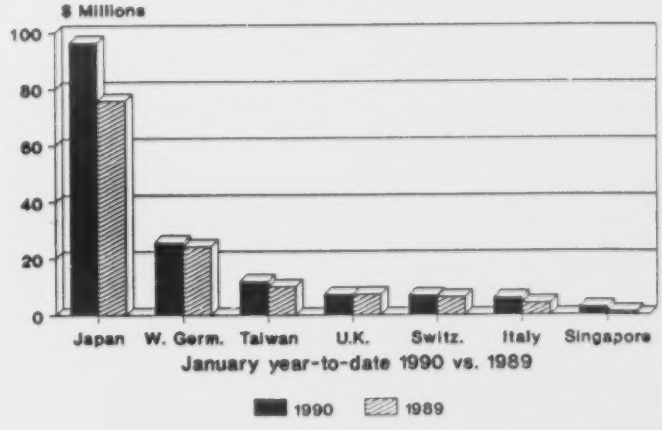
• Exports to Canada of $19.1 million were up from $6.9 million in December 1989. Included were grinding machines ($8.7 million), horizontal NC lathes ($2.3 million) and machining centers ($2.1 million).

METAL CUTTING MACHINE TOOL FOREIGN TRADE

LEADING U.S. EXPORT MARKETS
METAL CUTTING MACHINES



LEADING U.S. IMPORT SOURCES
METAL CUTTING MACHINES



Imports

• Imports rose to $173.5 million in January 1990, up 12% over December 1989 and equal to the third highest monthly total ever. Of the total, $96.4 million (56%) were from Japan and $25.7 million (15%) were from West Germany. Other major sources were Taiwan ($12.0 million), the United Kingdom ($7.3 million) and Switzerland ($6.9 million).

• Imports included machining centers ($44.5 million, 75% of which was from Japan), NC horizontal lathes ($34.3 million, 93% of which was from Japan), grinding machines ($28.4 million) and non-NC lathes ($9.7 million).

METAL FORMING

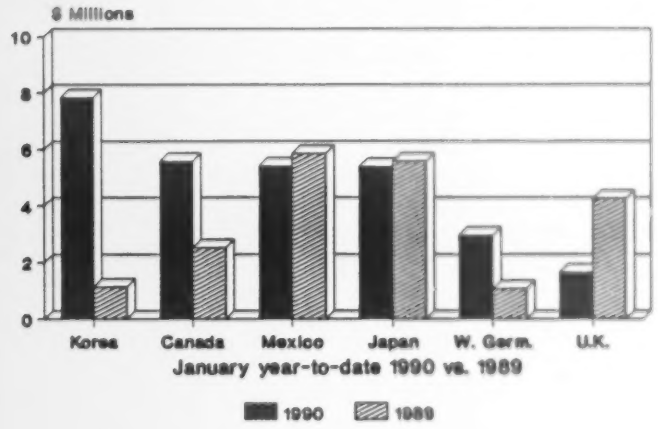
Exports

• Metal forming exports totalled $41.8 million in January 1990, up from $41.4 million in December 1989 and $32.1 million in January 1989. Major export markets were South Korea ($7.8 million, up from $2.4 million in December), Canada ($5.6 million), Mexico ($5.4 million) and Japan ($5.4 million). Exports to Iraq in January were $2.4 million.

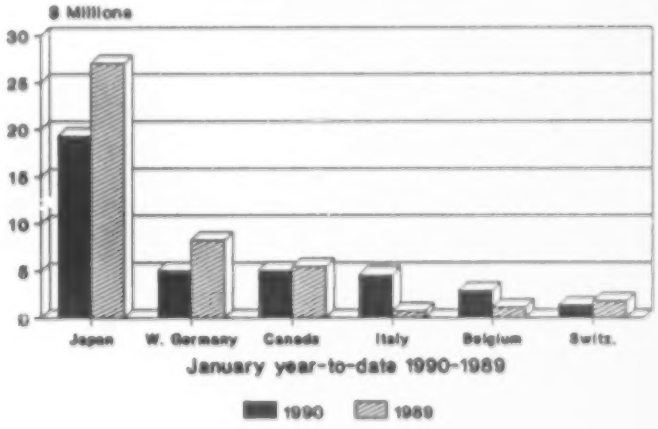
• Exports of presses were $11.7 million (including eight non-NC hydraulic presses to Korea for $3.7 million), down from $16.8 million in December. Exports of bending and forming machines were $5.9 million, up 153% over December 1989; exports of forging machines were $5.0 million, up 46% over December 1989.

METAL FORMING MACHINE TOOL FOREIGN TRADE

LEADING U.S. EXPORT MARKETS
METAL FORMING MACHINES



LEADING U.S. IMPORT SOURCES
METAL FORMING MACHINES



Imports

• U.S. metal forming machine tool imports totalled $42.6 million in January 1990, down 3% from December 1989 and down 16% from January 1989. Imports of presses were $7.1 million, up from $6.7 million in December; imports of forging machines were $8.5 million, down from $11.8 million in December; imports of bending and forming machines were $7.3 million, down from $8.3 million in December.

• Imports from Japan were $19.3 million, down from $19.9 million in December 1989 and $27.0 million in January 1989. Other major import sources in January 1990 were West Germany ($5.1 million), Canada ($5.1 million), Italy ($4.6 million) and Belgium ($2.9 million).

OTHER MANUFACTURING TECHNOLOGY

Exports

• Exports of machine tool parts and accessories were $58.8 million in January 1990, including $15.2 million to Canada and $7.1 million to the United Kingdom. Exports of parts for working rubber or plastics machinery were $20.9 million, and exports of industrial robot parts were $5.6 million.

• Exports of industrial robots were $7.9 million, up from $6.0 million in December. Exports of injection molding machines were $4.9 million, down from $6.8 million in December.

• Exports of numerical controls for controlling machine tools were $3.0 million, equal to the total in December 1989. Exports of industrial process controls were $3.1 million in January, down from $4.4 million in December.

Imports

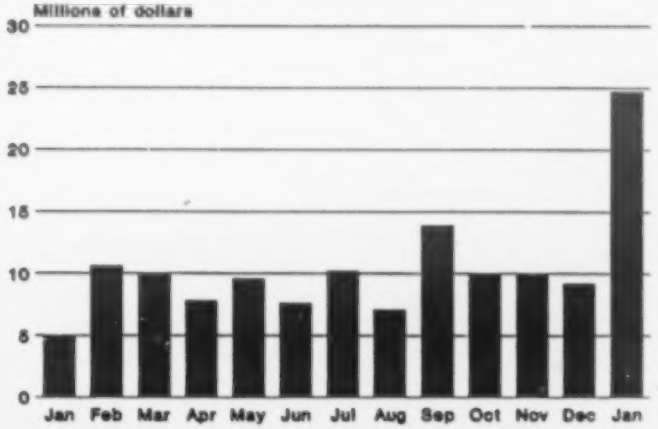
• Imports of machine tool parts and accessories were $49.0 million in January, up from $33.8 million in December. Major sources were Japan ($16.8 million), West Germany ($10.9 million) and Canada ($5.0 million). Imports of parts for rubber or plastics machinery were $32.0 million, and imports of industrial robot parts were $10.7 million. Imports of numerical controls were $3.0 million (down from $4.1 million in December), 96% of which was from Japan.

• In January, imports of injection molding machinery fell 4% from December to $29.4 million, imports of industrial robots were $8.2 million, down from $15.6 million in December, and imports of blow molding machines were $5.9 million, up from $4.3 million in December.

MONTHLY FOCUS

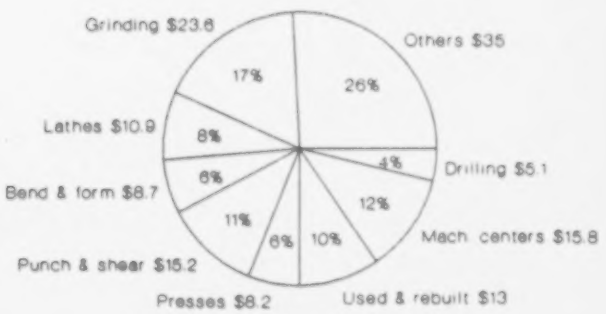
Canada and Mexico are perennially the two largest U.S. machine tool export markets. Canada was the largest market in 1980, 1983-1985, and 1987, while Mexico was first in 1981-1982, 1986 and 1988. Canada began 1990 with a flourish: exports to Canada in January were $24.7 million, versus $9.6 million for Mexico. The charts below detail U.S. exports to Canada from January 1989 to January 1990.

U.S. Machine Tool Exports to Canada
January 1989-January 1990



Source: NMTBA

U.S. Machine Tool Exports to Canada
January 1989-January 1990



(Values in millions of dollars)

1990 EXPORTS

METAL CUTTING

COUNTRY	JANUARY 1990	JANUARY 1989	% CHANGE	DECEMBER 1989	% CHANGE
Canada	$19,130,487	$2,461,695	677.13%	$6,926,829	176.18%
U.K.	7,091,975	1,506,062	370.90	7,414,920	-4.36
Mexico	4,163,500	4,343,717	-4.15	2,949,027	41.18
Korea	4,103,519	5,006,142	-18.03	774,940	429.53
India	3,542,508	1,418,056	149.81	674,996	424.82
Brazil	3,521,261	1,046,753	236.40	1,520,666	131.56
Japan	2,279,351	3,319,993	-31.34	2,334,070	-2.34
West Germany	2,225,342	740,421	200.55	2,860,936	-22.22
Australia	2,222,694	842,945	163.68	1,553,818	43.05
France	1,999,186	676,047	195.72	766,576	160.79
Italy	1,825,244	2,168,166	-15.82	1,406,343	29.79
Taiwan	1,774,960	1,221,874	45.27	799,808	121.92
Belgium	1,368,481	648,867	110.90	777,099	76.10
Singapore	583,277	856,958	-31.94	265,422	119.75
Spain	424,524	302,310	40.43	48,706	771.61
Netherlands	404,565	1,939,580	-79.14	728,701	-44.48
Switzerland	278,370	44,797	521.40	492,134	-43.44
Malaysia	211,781	35,008	504.95	9,805	2,059.93
Thailand	144,661	154,625	-6.44	438,873	-67.04
China	127,620	1,613,444	-92.09	4,018,965	-96.82
Indonesia	80,519	349,520	-76.96	0	NA
Austria	6,037	8,480	-28.81	20,984	-71.23
Venezuela	4,077	3,559,450	-99.89	43,963	-90.73
USSR	0	3,100	-100.00	8,996,603	-100.00

METAL FORMING

COUNTRY	JANUARY 1990	JANUARY 1989	% CHANGE	DECEMBER 1989	% CHANGE
Korea	$7,834,296	$1,138,103	588.36%	$2,446,473	220.23%
Canada	5,577,252	2,524,337	120.94	2,264,788	146.26
Mexico	5,406,892	5,844,151	-7.48	7,834,307	-30.98
Japan	5,388,718	5,572,471	-3.30	4,911,252	9.72
West Germany	2,957,432	1,066,592	177.28	3,897,759	-24.12
U.K.	1,665,510	4,254,410	-60.85	1,002,637	66.11
Italy	1,215,381	1,476,401	-17.68	2,232,131	-45.55
China	1,140,331	639,183	78.40	736,528	54.83
Netherlands	1,045,192	237,677	339.75	531,392	96.69
Taiwan	959,646	239,058	301.43	3,830,518	-74.95
India	828,485	614,631	34.79	84,641	878.82
Austria	566,000	0	NA	0	NA
France	468,006	1,080,049	-56.67	2,391,986	-80.43
Spain	284,142	118,512	139.76	212,914	33.45
Thailand	284,000	0	NA	213,913	32.76
Australia	215,755	187,448	15.10	272,975	-20.96
Singapore	212,746	2,214,941	-90.39	1,079,187	-80.29
Venezuela	168,125	872,575	-80.73	13,725	1,124.95
Brazil	64,729	184,457	-64.91	1,562,179	-95.86
Malaysia	58,564	132,120	-55.67	82,449	-28.97
Belgium	19,639	44,861	-56.22	1,999,604	-99.02
Indonesia	6,965	0	NA	0	NA
Switzerland	0	0	NA	147,086	-100.00
USSR	0	0	NA	0	NA

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JANUARY 1990	JANUARY 1989	% CHANGE	DECEMBER 1989	% CHANGE
Canada	$24,707,739	$ 4,986,032	395.54%	$ 9,191,617	168.81%
Korea	11,937,815	6,144,245	94.29	3,221,413	270.58
Mexico	9,570,392	10,187,868	-6.06	10,783,334	-11.25
U.K.	8,757,485	5,760,472	52.03	8,417,557	4.04
Japan	7,668,069	8,892,464	-13.77	7,245,322	5.83
West Germany	5,182,774	1,807,013	186.81	6,758,695	-23.32
India	4,370,993	2,032,687	115.04	759,637	475.41
Brazil	3,585,990	1,231,210	191.26	3,082,845	16.32
Italy	3,040,625	3,644,567	-16.57	3,638,474	-16.43
Taiwan	2,734,606	1,460,932	87.18	4,630,326	-40.94
France	2,467,192	1,756,096	40.49	3,158,562	-21.89
Australia	2,438,449	1,030,393	136.65	1,826,793	33.48
Netherlands	1,449,757	2,177,257	-33.41	1,260,093	15.05
Belgium	1,388,120	693,728	100.10	2,776,703	-50.01
China	1,267,951	2,252,627	-43.71	4,755,493	-73.34
Singapore	796,023	3,071,899	-74.09	1,344,609	-40.80
Spain	708,666	420,822	68.40	261,620	170.88
Austria	572,037	8,480	6,645.72	20,984	2,626.06
Thailand	428,661	154,625	177.23	652,786	-34.33
Switzerland	278,370	44,797	521.40	639,220	-56.45
Malaysia	270,345	167,128	61.76	92,254	193.04
Venezuela	172,202	4,432,025	-96.11	57,688	198.51
Indonesia	87,484	349,520	-74.97	0	NA
USSR	0	3,100	-100.00	8,996,603	-100.00

1990 IMPORTS

METAL CUTTING

COUNTRY	JANUARY 1990	JANUARY 1989	% CHANGE	DECEMBER 1989	% CHANGE
Japan	$ 96,409,162	$ 75,768,884	27.24%	$ 76,228,360	26.47%
West Germany	25,716,456	24,351,766	5.60	31,880,812	-19.34
Taiwan	12,024,656	10,169,852	18.24	9,503,279	26.53
U.K.	7,301,671	7,358,302	-0.77	8,333,372	-12.38
Switzerland	6,922,891	6,339,501	9.20	6,589,288	5.06
Italy	6,114,586	4,317,650	41.62	4,557,030	34.18
Singapore	2,703,581	1,098,655	146.08	1,709,746	58.13
Sweden	2,261,885	475,362	375.82	1,539,880	46.89
Korea	2,236,678	1,110,814	101.35	2,148,718	4.09
Spain	2,003,220	1,555,914	28.75	1,458,837	37.32
France	1,164,643	5,006,662	-76.74	2,026,446	-42.53
Canada	1,016,497	1,680,852	-39.52	2,359,196	-56.91
Brazil	972,426	847,581	14.73	479,825	102.66
Belgium	183,202	962,238	-80.96	629,175	-70.88

METAL FORMING

COUNTRY	JANUARY 1990	JANUARY 1989	% CHANGE	DECEMBER 1989	% CHANGE
Japan	$ 19,339,002	$ 27,042,008	-28.49%	$ 19,926,101	-2.95%
West Germany	5,060,547	8,276,647	-38.86	5,434,129	-6.87
Canada	5,055,174	5,423,801	-6.80	4,770,478	5.97
Italy	4,570,942	725,090	530.40	1,969,237	132.12
Belgium	2,911,568	1,094,457	166.03	2,619,401	11.15
Switzerland	1,354,674	1,788,139	-24.24	1,232,758	9.89
Sweden	1,167,365	986,203	18.37	1,381,029	-15.47
U.K.	909,509	1,772,316	-48.68	2,747,854	-66.90
Taiwan	755,929	734,394	2.93	1 131,376	-33.18
Spain	177,194	43,986	302.84	324,784	-45.44
France	169,658	199,753	-15.57	245,236	-31.23
Brazil	0	1,330	-100.00	0	NA
Singapore	0	236,556	-100.00	0	NA
Korea	0	0	NA	240,695	-100.00

TOTAL METAL CUTTING AND METAL FORMING

COUNTRY	JANUARY 1990	JANUARY 1989	% CHANGE	DECEMBER 1989	% CHANGE
Japan	$115,748,164	$102,810,892	12.58%	$ 96,154,461	20.38%
West Germany	30,777,003	32,628,413	-5.67	37,314,941	-17.52
Taiwan	12,780,585	10,904,246	17.21	10,634,655	20.18
Italy	10,685,528	5,042,740	111.90	6,526,267	63.73
Switzerland	8,277,565	8,127,640	1.84	7,822,046	5.82
U.K.	8,211,180	9,130,618	-10.07	11,081,226	-25.90
Canada	6,071,671	7,104,653	-14.54	7,129,674	-14.84
Sweden	3,429,250	1,461,565	134.63	2,920,909	17.40
Belgium	3,094,770	2,056,695	50.47	3,248,576	-4.73
Singapore	2,703,581	1,335,211	102.48	1,709,746	58.13
Korea	2,236,678	1,110,814	101.35	2,389,413	-6.39
Spain	2,180,414	1,599,900	36.28	1,783,621	22.25
France	1,333,301	5,206,415	-74.39	2,271,682	-41.31
Brazil	972,426	848,911	14.55	479,825	102.66

1990 U.S. EXPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990 UNITS	JANUARY 1990 VALUE	JANUARY 1989 UNITS	JANUARY 1989 VALUE	DECEMBER 1989 UNITS	DECEMBER 1989 VALUE
Used & Rebuilt & Under $2,500	2,899	$12,224,015	4,001	$9,651,663	3,122	$9,216,500
Boring Machines	13	958,297	74	638,181	8	1,268,274
Drilling Machines	110	2,255,419	18	895,459	62	731,257
Gear Cutting Machines	41	5,554,867	36	5,448,728	38	15,541,997
Grinding Machines	271	15,211,730	230	7,834,870	381	12,184,907
Horizontal Lathes NC	43	4,863,833	16	2,019,282	14	1,767,718
Vertical Lathes NC	5	1,223,137	2	366,000	2	299,840
Lathes Non-NC	58	1,113,041	16	465,926	47	1,070,817
Milling Machines	48	3,596,641	66	4,903,870	22	838,137
Machining Centers	65	7,526,957	21	3,086,413	37	3,741,018
Station Type Machines	10	5,374,341	4	1,498,740	3	5,017,482
Other Metal Cutting	314	7,165,369	257	4,584,770	222	4,519,217
Punching & Shearing	107	4,427,453	63	2,957,497	128	5,143,232
Bending & Forming Machines	137	5,902,352	84	3,433,140	66	2,336,980
Presses	259	11,682,624	133	5,590,097	206	16,835,790
Forging Machines	26	5,015,295	46	3,249,295	37	3,439,617
Other Metal Forming	265	8,974,698	322	12,540,612	221	10,516,660
TOTAL	4,671	$103,070,069	5,389	$69,164,543	4,616	$94,469,443

PRODUCT TYPES	% CHANGE JAN 89' - JAN 90' UNITS	% CHANGE JAN 89' - JAN 90' VALUE	% CHANGE DEC 89' - JAN 90' UNITS	% CHANGE DEC 89' - JAN 90' VALUE
Used & Rebuilt & Under $2,500	-27.54%	26.65%	-7.14%	32.63%
Boring Machines	-82.43	50.16	62.50	-24.44
Drilling Machines	511.11	151.87	77.42	208.43
Gear Cutting Machines	13.89	1.95	7.89	-64.26
Grinding Machines	17.83	94.15	-28.87	24.84
Horizontal Lathes NC	168.75	140.87	207.14	175.15
Vertical Lathes NC	150.00	234.19	150.00	307.93
Lathes Non-NC	262.50	138.89	23.40	3.94
Milling Machines	-27.27	-26.66	118.18	329.12
Machining Centers	209.52	143.87	75.68	101.20
Station Type Machines	150.00	258.59	233.33	7.11
Other Metal Cutting	22.18	56.29	41.44	58.55
Punching & Shearing	69.84	49.70	-16.41	-13.92
Bending & Forming Machines	63.10	71.92	107.58	152.56
Presses	94.74	108.99	25.73	-30.61
Forging Machines	-43.48	54.35	-29.73	45.81
Other Metal Forming	-17.70	-28.43	19.91	-14.66
TOTAL	-13.32	49.02	1.19	9.10

1990 U.S. IMPORTS

BY PRODUCT GROUPS

PRODUCT TYPES	JANUARY 1990 UNITS	JANUARY 1990 VALUE	JANUARY 1989 UNITS	JANUARY 1989 VALUE	DECEMBER 1989 UNITS	DECEMBER 1989 VALUE
Used & Rebuilt & Under $2,500	80,165	$ 15,101,348	40,903	$10,113,655	57,233	$ 11,578,118
Boring Machines	40	2,511,474	89	7,646,136	33	2,375,161
Drilling Machines	187	5,976,518	161	10,160,328	101	6,664,794
Gear Cutting Machines	37	5,386,214	46	4,358,306	89	5,929,864
Grinding Machines	722	28,410,149	560	13,559,864	714	20,669,640
Horizontal Lathes NC	342	34,310,797	366	33,687,505	285	27,365,253
Vertical Lathes NC	23	2,826,480	13	1,199,802	20	9,235,558
Lathes Non-NC	609	9,691,329	560	7,822,799	487	7,560,417
Milling Machines	450	9,477,437	410	9,722,408	478	5,821,671
Machining Centers	368	44,495,101	315	34,929,013	325	33,036,088
Station Type Machines	16	4,428,004	11	1,801,730	11	2,291,631
Other Metal Cutting	543	14,026,009	311	12,467,388	392	25,077,045
Punching & Shearing	110	5,701,791	161	7,053,551	164	4,771,936
Bending Forming Machines	206	7,285,979	183	8,366,797	147	8,320,878
Presses	339	7,092,434	239	11,386,574	253	6,745,625
Forging Machines	82	8,532,715	236	13,641,470	93	11,837,768
Other Metal Forming	289	10,864,319	129	8,724,784	153	9,761,291
TOTAL	84,528	$216,118,098	44,693	$196,642,110	60,978	$199,042,738

PRODUCT TYPES	% CHANGE JAN 89' - JAN 90' UNITS	% CHANGE JAN 89' - JAN 90' VALUE	% CHANGE DEC 89' - JAN 90' UNITS	% CHANGE DEC 89' - JAN 90' VALUE
Used & Rebuilt & Under $2,500	95.99%	49.32%	40.07%	30.43%
Boring Machines	-55.06	-67.15	21.21	5.74
Drilling Machines	16.15	-41.18	85.15	-10.33
Gear Cutting Machines	-19.57	23.59	-58.43	-9.17
Grinding Machines	28.93	109.52	1.12	37.45
Horizontal Lathes NC	-6.56	1.85	20.00	25.38
Vertical Lathes NC	76.92	135.58	15.00	-69.40
Lathes Non-NC	8.75	23.89	25.05	28.19
Milling Machines	9.76	-2.52	-5.86	62.80
Machining Centers	16.83	27.39	13.23	34.69
Station Type Machines	45.45	145.76	45.45	93.23
Other Metal Cutting	74.60	12.50	38.52	-44.07
Punching & Shearing	-31.68	-19.16	-32.93	19.49
Bending Forming Machines	12.57	-12.92	40.14	-12.44
Presses	41.84	-37.71	33.99	5.14
Forging Machines	-65.25	-37.45	-11.83	-27.92
Other Metal Forming	124.03	24.52	88.89	11.30
TOTAL	89.13	9.90	38.62	8.58

RELEASED: April 18, 1990

U.S. IMPORTS - Metal Cutting Machine Tools - January 90

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC *	66	3539	66	3539
301050	Electro-discharge machines, n.e.c., NC	8	423	8	423
301070	Electro-discharge machines, n.e.c., non-NC	60	1103	60	1103
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	234	21573	234	21573
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	18	3135	18	3135
100035	Horiz. mach. ctrs., ATC	82	16835	82	16835
100045	Mach. ctrs., n.e.c.	34	2952	34	2952
200010	Unit construction mach. (single station transfer), NC	5	489	5	489
200090	Unit construction mach. (single station transfer), non-NC	0	0	0	0
300010	Multi-station transfer machines, NC	1	1086	1	1086
300090	Multi-station transfer machines, non-NC	10	2853	10	2853
8458110010	Horiz. lathes, multiple spindle, NC	47	7276	47	7276
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	218	16440	218	16440
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	70	9216	70	9216
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	7	1379	7	1379
190030	Horiz. engine or toolroom lathes, non-NC	321	3160	321	3160
190050	Automatic bar and/or chucking mach., single spindle, non-NC	64	2274	64	2274
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	6	1148	6	1148
190090	Horiz. lathes, n.e.c., non-NC	79	898	79	898
911060	Vertical turret lathes, multiple spindle, NC	3	556	3	556
911080	Vertical turret lathes, n.e.c., NC	2	338	2	338
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	18	1932	18	1932
991050	Vertical turret lathes, non-NC	35	249	35	249
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	104	1962	104	1962
8459100000	Way-type unit head machines	0	0	0	0
210080	Other drilling machines, NC	56	3571	56	3571
290040	Drilling machines, multiple spindle, non-NC	31	838	31	838
290050	Drilling machines, radial, non-NC	40	272	40	272
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	9	65	9	65
290090	Drilling machines, n.e.c., non-NC	51	1231	51	1231
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	0	0	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	12	503	12	503
310070	Boring-milling mach., n.e.c., NC	4	325	4	325
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	4	261	4	261
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	5	569	5	569
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	3	326	3	326
400070	Boring machines, n.e.c., NC	7	396	7	396
400080	Boring machines, n.e.c., non-NC	5	131	5	131
510080	Milling machines, knee type, NC	58	1237	58	1237
590030	Milling machines, knee type, non-NC	291	2122	291	2122
610080	Milling machines, excl. knee type, n.e.c., NC	43	2085	43	2085
690050	Milling machines, profile, dup., or die sinking, non-NC	5	24	5	24
690070	Milling machines, bed type, non-NC	6	476	6	476
690090	Milling machines, n.e.c., non-NC	47	3534	47	3534
700020	Threading or tapping machines, n.e.c., NC	10	368	10	368
700080	Threading or tapping machines, n.e.c., non-NC	10	236	10	236
8460110080	Flat surface grinding mach., NC	14	820	14	820
190010	Flat surface grinding mach., recip.-table type, non-NC	74	1038	74	1038
190050	Flat surface grinding mach., n.e.c., non-NC	186	1353	186	1353
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	45	9240	45	9240
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	46	1264	46	1264
290030	Grinding mach., internal cylindrical, non-NC	12	1680	12	1680
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	94	5045	94	5045
310080	Sharpening machines (tool & cutter grinding), NC	18	314	18	314
390050	Sharpening machines (tool & cutter grinding), non-NC	91	1390	91	1390
400060	Honing or lapping machines, NC	6	577	6	577
400080	Honing or lapping machines, non-NC	23	401	23	401
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	9	206	9	206
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	104	5080	104	5080
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	0	0	0	0
200010	Shaping or slotting machines, NC	63	1995	63	1995
200090	Shaping or slotting machines, non-NC	46	963	46	963
300060	Broaching machines, NC	0	0	0	0
300080	Broaching machines, non-NC	4	841	4	841
401020	Gear cutting for bevel gears	0	0	0	0
401030	Gear hobbers	7	995	7	995
401040	Gear shapers	3	1135	3	1135
401060	Gear cutting machines, n.e.c.	18	363	18	363
405050	Gear grinding or finishing for bevel gears	0	0	0	0
405070	Gear grinding or finishing machines, n.e.c.	9	2893	9	2893
500050	Sawing or cutting-off machines, NC	21	1303	21	1303
500090	Sawing or cutting-off machines, non-NC	237	2678	237	2678
9000000001	Metal cutting machine tools, n.e.c.	18	577	18	577
9800000001	Used or rebuilt machine tools	84	2953	84	2953
9900000001	Machine tools valued at less than $2,500	78833	8983	78833	8983
	Cutting Total			82254	173475
	Y-T-D Cutting Total	82254	173475		
	NC Y-T-D Cutting Total	1183	110239		

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	3	152	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	12	156	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	1	2	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	1	309	0	0	1	526
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	1	97	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	5	63	3	100	1	4	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	37	168	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	1	33
991050	0	0	0	0	0	0	1	85	0	0
995090	0	0	37	134	7	21	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	1	435	0	0	0	0	0	0
290040	0	0	0	0	0	0	1	4	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	4	403	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	2	37	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	6	95
400080	0	0	0	0	3	48	0	0	1	51
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	3	2301
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	32	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	1	10
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	3	13	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	92
290010	0	0	0	0	26	152	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	7	122
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	4	12	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	1	4	0	0	6	122
900080	0	0	0	0	5	26	0	0	26	1551
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	3	9	0	0	1	155
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	0	0	1	184
401040	0	0	0	0	0	0	0	0	0	0
401060	0	0	1	172	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	0	0	0	0	1	76
500050	0	0	0	0	0	0	0	0	0	0
500090	5	20	0	0	17	173	4	120	44	226
9000000001	0	0	0	0	0	0	0	0	3	26
9800000001	1	164	0	0	8	33	0	0	0	0
9900000001	0	0	0	0	45	46	105	144	3140	545
Month Tot	6	183	81	972	130	1016	132	1165	3243	6115
Y-T-D Tot	6	183	81	972	130	1016	132	1165	3243	6115
NC YTD Tot	0	0	1	435	4	43	4	249	16	372

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	48	3138	0	0	0	0	0	0	0	0
301050	4	385	0	0	0	0	0	0	0	0
301070	2	135	0	0	0	0	0	0	0	0
8457100015	157	16201	0	0	30	1626	0	0	0	0
100025	17	2997	0	0	0	0	0	0	0	0
100035	61	13539	0	0	0	0	0	0	0	0
100045	5	705	0	0	0	0	0	0	0	0
200010	0	0	5	489	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	1	1086	0	0	0	0	0	0	0	0
300090	2	1150	0	0	0	0	0	0	0	0
8458110010	42	6295	0	0	0	0	0	0	0	0
110030	197	15174	8	510	0	0	0	0	0	0
110050	69	9119	0	0	0	0	0	0	0	0
110090	6	1229	0	0	0	0	1	150	0	0
190030	12	170	5	63	26	314	1	47	0	0
190050	14	1115	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	3	343	0	0	0	0	0	0	0	0
911060	2	355	0	0	0	0	0	0	1	201
911080	2	338	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	3	629	2	204	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	1	149	16	910	0	0	0	0	1	15
8459100000	0	0	0	0	0	0	0	0	0	0
210080	50	3094	0	0	0	0	0	0	0	0
290040	2	269	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	2	44
290070	1	40	0	0	0	0	0	0	8	25
290090	8	492	0	0	0	0	30	233	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	4	544	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	1	316	0	0	0	0	0	0	0	0
400070	1	301	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	9	154	0	0	0	0	148	1029	0	0
610080	6	1277	0	0	2	84	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	2	86	0	0	0	0	0	0	2	314
690090	5	699	0	0	0	0	0	0	0	0
700020	10	368	0	0	0	0	0	0	0	0
700080	8	126	0	0	0	0	0	0	0	0
8460110080	7	243	0	0	0	0	0	0	1	379
190010	30	285	0	0	41	449	0	0	0	0
190050	1	33	0	0	0	0	0	0	1	5
210080	22	3197	0	0	0	0	0	0	1	366
290010	2	86	0	0	0	0	0	0	2	167
290030	0	0	0	0	0	0	0	0	1	333
290050	29	3706	0	0	0	0	0	0	0	0
310080	5	153	0	0	0	0	0	0	0	0
390050	20	490	0	0	0	0	0	0	0	0
400060	5	506	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	11	164
900060	2	80	0	0	0	0	0	0	0	0
900080	17	1151	7	55	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	62	1768	0	0	0	0	0	0	0	0
200090	0	0	0	0	37	230	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	1	46	0	0	0	0	0	0	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	2	185	0	0	0	0	0	0	0	0
401040	0	0	0	0	0	0	0	0	0	0
401060	1	175	0	0	0	0	0	0	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	3	649	0	0	0	0	0	0	0	0
500050	2	164	0	0	0	0	0	0	0	0
500090	14	739	0	0	0	0	0	0	0	0
9000000001	6	162	0	0	0	0	0	0	0	0
9800000001	14	445	0	0	0	0	0	0	2	80
9900000001	5269	673	20	5	0	0	0	0	99	170
Month Tot	6265	96409	63	2237	136	2704	184	2003	132	2262
Y-T-D Tot	6265	96409	63	2237	136	2704	184	2003	132	2262
NC YTD Tot	789	82451	15	1203	32	1710	1	150	3	946

Please see notes on last page of the metal forming section.

U.S. IMPORTS - Metal Cutting Machine Tools - January 90

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	1	136	13	107	0	0	0	0	1	6
301050	0	0	2	35	2	4	0	0	0	0
301070	10	260	22	378	3	6	1	41	10	128
8457100015	1	583	3	199	26	1755	5	581	12	628
100025	0	0	1	138	0	0	0	0	0	0
100035	0	0	1	145	0	0	20	3152	0	0
100045	1	197	14	912	0	0	13	1136	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	6	868	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	5	982	0	0
110030	4	304	9	451	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	5	14	72	573	46	673	0	0	145	1138
190050	4	365	38	308	8	487	0	0	0	0
190070	6	1148	0	0	0	0	0	0	0	0
190090	0	0	0	0	7	80	0	0	32	307
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	3	489	9	579
991050	0	0	10	36	0	0	0	0	24	129
995090	0	0	0	0	6	488	11	53	25	192
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	5	41	0	0
290040	1	363	25	71	0	0	0	0	2	130
290050	0	0	20	129	0	0	2	16	16	83
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	2	48	7	54
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	1	192	1	50	8	224
310070	2	61	1	9	0	0	1	255	0	0
390040	0	0	0	0	0	0	3	205	1	57
390050	0	0	1	25	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	2	10	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	32	0	0	0	0
510080	0	0	33	304	21	712	1	122	3	98
590030	0	0	75	410	41	299	3	120	15	109
610080	4	76	28	466	0	0	2	175	1	7
690050	0	0	5	24	0	0	0	0	0	0
690070	0	0	1	22	0	0	1	55	0	0
690090	2	137	15	135	0	0	2	210	20	53
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	1	78	0	0
8460110080	0	0	0	0	4	183	0	0	1	6
190010	0	0	0	0	0	0	2	288	1	16
190050	2	76	166	953	5	151	3	51	5	72
210080	6	1023	0	0	1	88	14	4475	0	0
290010	7	597	0	0	4	212	0	0	5	50
290030	2	302	0	0	1	28	2	970	6	47
290050	2	11	3	32	17	157	23	640	13	379
310080	2	22	8	78	0	0	3	61	0	0
390050	14	166	15	109	15	110	20	285	3	218
400060	0	0	0	0	0	0	1	71	0	0
400080	0	0	0	0	3	20	1	51	8	166
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	7	28	6	24	29	1932	7	312
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	1	227	0	0
200090	1	17	0	0	2	8	2	544	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	3	795	0	0
401020	0	0	0	0	0	0	0	0	0	0
401030	0	0	0	0	0	0	3	605	1	21
401040	0	0	0	0	0	0	3	1135	0	0
401060	0	0	0	0	0	0	16	16	0	0
405050	0	0	0	0	0	0	0	0	0	0
405070	0	0	0	0	2	40	3	2127	0	0
500050	0	0	2	50	0	0	17	1088	0	0
500090	0	0	29	94	27	112	54	912	43	282
9000000001	1	118	0	0	0	0	4	235	4	36
9800000001	4	50	8	8	31	1151	12	997	4	25
9900000001	83	30	61679	5796	387	279	487	403	7519	892
Month Tot	171	6923	62306	12025	669	7302	785	25716	7951	6444
Y-T-D Tot	171	6923	62306	12025	669	7302	785	25716	7951	6444
NC YTD Tot	21	2401	115	2893	55	2934	92	12904	35	1547

Please see notes on last page of the metal forming section.

U.S. IMPORTS

Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology

January 90

RELEASED: April 18, 1990

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	28	653	28	653
8462100030	Headers and upsetters, including cold headers	17	1642	17	1642
100050	Forging or die stamping machines, and hammers, n.e.c.	65	6891	65	6891
210080	Bending, folding, straight. or flat. mach., incl presses, NC	56	2586	56	2586
290030	Press brakes, non-NC	14	449	14	449
290040	Bending rolls, non-NC	11	340	11	340
290050	Bending, folding, straight., or flat., n.e.c., non-NC	125	3912	125	3912
310080	Shearing machines, NC	2	62	2	62
390050	Shearing machines, non-NC	35	1705	35	1705
410080	Punching or notching mach., incl. comb. punch & shear, NC	24	3030	24	3030
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	49	905	49	905
910060	Hydraulic presses, NC	0	0	0	0
910090	Hydraulic presses, non-NC	204	1561	204	1561
990030	Presses, n.e.c., NC	34	3121	34	3121
990035	Mechanical transfer presses, non-NC	0	0	0	0
990045	Mechanical presses, n.e.c., non-NC	12	630	12	630
990060	Presses, n.e.c., non-NC	89	1781	89	1781
8463100080	Draw benches for bars, tubes, profiles, wire or the like	5	267	5	267
200080	Thread rolling machines	20	1015	20	1015
300080	Machines for working wire	166	6522	166	6522
900080	Metal forming machine tools, n.e.c.	70	2408	70	2408
9800000002	Used or rebuilt machine tools	64	2478	64	2478
9900000002	Machine tools valued at less than $2,500	1184	687	1184	687
	Forming Total			2274	42643
	Y-T-D Forming Total	2274	42643		
	NC Y-T-D Forming Total	116	8798		
	Cutting and Forming Totals:				
	Monthly Total			84528	216118
	Y-T-D Total	84528	216118		
	NC Y-T-D Total	1299	119037		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
1000000000	Machine tool parts and accessories	0	48968	0	48968
2000000000	Parts for working rubber or plastics - heading 8477	0	31982	0	31982
2710003070	Quenching or cutting oils	0	25	0	25
8428900010	Industrial robots for lifting, handling, loading or unload	231	3883	231	3883
8431390080	Parts industrial robots, handling and loading - heading 8428	0	8352	0	8352
8456101010	Laser, light or photon beam for working metal, NC	16	3484	16	3484
101020	Laser, light or photon beam for working metal, non-NC	1	1	1	1
105000	Laser, light or photon beam for other materials	11	30	11	30
201010	Ultrasonic processes for working metal, NC	0	0	0	0
201050	Ultrasonic processes for working metal, non-NC	0	0	0	0
205000	Ultrasonic processes for working other materials	1	38	1	38
8477103000	Injection molding mach., for manufacturing shoes	0	0	0	0
106010	Injection molding mach., for rubber or oth. thermosetting	61	4704	61	4704
106050	Injection molding mach., for thermoplastics	194	24661	194	24661
200010	Extruders for rubber or other thermosetting materials	15	2390	15	2390
200050	Extruders for processing thermoplastics	46	4326	46	4326
300000	Blow molding machines	80	5934	80	5934
400000	Vacuum-molding and other thermoforming machines	14	576	14	576
510010	Machines for molding or retreading pneumatic tires	63	4657	63	4657
510090	Machines for molding or otherwise forming inner tubes	18	1457	18	1457
590000	Machines for molding or otherwise forming n.e.c.	105	16308	105	16308
800000	Machines for working rubber or plastics n.e.c.	435	18135	435	18135
8479899040	Industrial robots, n.e.c.	1467	4293	1467	4293
908040	Industrial robot parts	0	2317	0	2317
8537100030	Numerical controls for controlling machine tools	1798	3048	1798	3048
9024100000	Machines and appliances for testing metals	0	667	0	667
9031100000	Machines for balancing mechanical parts	0	995	0	995
300000	Profile projectors	0	384	0	384
9032810020	Industrial process control instr., hydraulic	7469	78	7469	78
810060	Industrial process control instr., pneumatic	27666	312	27666	312

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	6	477	0	0	0	0
8462100030	0	0	0	0	0	0	1	12	2	470
100050	0	0	0	0	9	246	0	0	2	606
210080	1	239	0	0	0	0	2	20	1	116
290030	1	35	0	0	10	337	0	0	0	0
290040	0	0	0	0	2	14	0	0	2	67
290050	0	0	0	0	53	1144	0	0	13	120
310080	0	0	0	0	0	0	0	0	0	0
390050	6	66	0	0	11	192	0	0	3	18
410080	1	1068	0	0	1	10	0	0	0	0
490050	0	0	0	0	4	282	0	0	6	33
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	0	0	21	1077	0	0	2	61
990030	0	0	0	0	0	0	0	0	28	189
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	1	10
990060	0	0	0	0	29	418	5	19	17	249
8463100080	1	228	0	0	0	0	0	0	3	36
200080	0	0	0	0	1	11	0	0	0	0
300080	29	1077	0	0	1	96	0	0	16	1572
900080	0	0	0	0	4	419	1	109	2	9
9800000002	9	199	0	0	25	297	0	0	2	1008
9900000002	0	0	0	0	31	36	6	9	8	9
Month Tot	48	2912	0	0	208	5055	15	169	108	4571
Y-T-D Tot	48	2912	0	0	208	5055	15	169	108	4571
NC YTD Tot	2	1307	0	0	1	10	2	20	29	304
C&F Month	54	3095	81	972	338	6072	147	1333	3351	10686
C&F Y-T-D	54	3095	81	972	338	6072	147	1333	3351	10686
C&F NC YTD	2	1307	1	435	5	53	6	269	45	677

Other Manufacturing Technology

1000000000	0	1164	0	46	0	4971	0	885	0	2056
2000000000	0	1868	0	18	0	4843	0	2099	0	1077
2710003070	0	0	0	0	0	5	0	0	0	0
8428900010	0	0	0	0	66	131	0	0	0	0
8431390080	0	0	0	26	0	824	0	68	0	688
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	1	5
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	0	0	0	0	0	0	5	592	0	0
106050	0	0	0	0	42	3797	1	645	11	1489
200010	2	7	0	0	2	6	0	0	1	26
200050	0	0	0	0	0	0	0	0	1	150
300000	0	0	0	0	1	332	0	0	1	19
400000	0	0	0	0	0	0	0	0	0	0
510010	1	5	0	0	10	744	4	22	5	306
510090	0	0	0	0	0	0	0	0	2	11
590000	0	0	0	0	4	415	0	0	10	629
800000	30	465	0	0	20	304	23	1456	12	200
8479899040	0	0	0	0	15	605	0	0	0	0
908040	0	24	0	0	0	60	0	9	0	8
8537100030	0	0	0	0	5	21	0	0	1	16
9024100000	0	0	0	0	0	69	0	19	0	0
9031100000	0	0	0	0	0	5	0	29	0	64
300000	0	0	0	0	0	0	0	0	0	3
9032810020	0	0	0	0	0	0	0	0	42	1
810060	2	1	0	0	0	0	0	0	895	86

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	21	50	0	0	0	0	0	0	0	0
8462100030	14	1160	0	0	0	0	0	0	0	0
100050	16	3986	0	0	0	0	1	6	6	290
210080	40	1641	0	0	0	0	0	0	2	195
290030	3	77	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	88
290050	12	1279	0	0	0	0	0	0	14	245
310080	1	59	0	0	0	0	0	0	0	0
390050	9	1130	0	0	0	0	0	0	0	0
410080	9	697	0	0	0	0	0	0	0	0
490050	5	85	0	0	0	0	12	118	3	65
910060	0	0	0	0	0	0	0	0	0	0
910090	28	93	0	0	0	0	0	0	1	150
990030	5	2669	0	0	0	0	0	0	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	11	620	0	0	0	0	0	0	0	0
990060	9	145	0	0	0	0	0	0	3	64
8463100080	0	0	0	0	0	0	0	0	0	0
200080	18	968	0	0	0	0	1	36	0	0
300080	55	2969	0	0	0	0	0	0	0	0
900080	26	763	0	0	0	0	1	17	1	48
9800000002	10	818	0	0	0	0	0	0	0	0
9900000002	80	129	0	0	0	0	0	0	184	22
Month Tot	372	19339	0	0	0	0	15	177	215	1167
Y-T-D Tot	372	19339	0	0	0	0	15	177	215	1167
NC YTD Tot	55	5067	0	0	0	0	0	0	2	195
C&F Month	6637	115748	63	2237	136	2704	199	2180	347	3429
C&F Y-T-D	6637	115748	63	2237	136	2704	199	2180	347	3429
C&F NC YTD	844	87518	15	1203	32	1710	1	150	5	1141

Other Manufacturing Technology

1000000000	0	16827	0	158	0	355	0	215	0	802
2000000000	0	10517	0	138	0	21	0	28	0	57
2710003070	0	4	0	0	0	0	0	0	0	0
8428900010	142	3064	0	0	0	0	0	0	10	403
8431390080	0	3106	0	54	0	0	0	23	0	156
8456101010	12	3478	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	36	3048	0	0	1	62	0	0	0	0
106050	53	10348	7	152	0	0	0	0	0	0
200010	6	2172	0	0	0	0	0	0	0	0
200050	2	48	1	11	0	0	0	0	0	0
300000	22	1111	41	211	0	0	0	0	0	0
400000	0	0	0	0	0	0	0	0	0	0
510010	37	3572	0	0	0	0	0	0	0	0
510090	7	1167	0	0	0	0	0	0	0	0
590000	28	13975	2	38	0	0	0	0	0	0
800000	69	6386	0	0	0	0	0	0	1	18
8479899040	1421	2363	0	0	0	0	0	0	6	278
908040	0	659	0	0	0	0	0	0	0	56
8537100030	1668	2912	0	0	0	0	0	0	0	0
9024100000	0	54	0	0	0	0	0	0	0	0
9031100000	0	805	0	0	0	0	0	0	0	0
300000	0	253	0	0	0	0	0	0	0	0
9032810020	0	0	0	0	0	0	0	0	0	0
810060	88	24	0	0	0	0	0	0	253	57

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
January 90

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	1	126	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	95	2	59	2	181	12	1300	14	123
210080	0	0	1	6	0	0	3	246	6	123
290030	0	0	0	0	0	0	0	0	0	0
290040	1	5	0	0	2	52	0	0	3	114
290050	3	85	4	100	1	15	8	836	17	86
310080	1	3	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	3	264	3	36
410080	2	320	0	0	0	0	9	698	2	236
490050	3	123	0	0	1	11	9	100	6	88
910060	0	0	0	0	0	0	0	0	0	0
910090	1	5	107	69	0	0	16	80	28	27
990030	0	0	0	0	0	0	1	263	0	0
990035	0	0	0	0	0	0	0	0	0	0
990045	0	0	0	0	0	0	0	0	0	0
990060	0	0	15	327	1	220	5	297	5	42
8463100080	1	3	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	4	155	6	50	37	279	14	310	4	14
900080	12	561	0	0	12	35	11	447	0	0
9800000002	0	0	0	0	11	55	4	38	3	63
9900000002	0	0	402	145	35	61	123	55	315	221
Month Tot	29	1355	537	756	102	910	219	5061	406	1172
Y-T-D Tot	29	1355	537	756	102	910	219	5061	406	1172
NC YTD Tot	3	323	1	6	0	0	13	1207	8	359
C&F Month	200	8278	62843	12781	771	8211	1004	30777	8357	7616
C&F Y-T-D	200	8278	62843	12781	771	8211	1004	30777	8357	7616
C&F NC YTD	24	2725	116	2899	55	2934	105	14111	43	1906

Other Manufacturing Technology

1000000000	0	2454	0	1507	0	3316	0	10866	0	3346
2000000000	0	1202	0	408	0	447	0	7824	0	1435
2710003070	0	0	0	0	0	0	0	17	0	0
8428900010	0	0	0	0	9	91	4	193	0	0
8431390080	0	172	0	195	0	1014	0	697	0	1329
8456101010	0	0	0	0	4	7	0	0	0	0
101020	0	0	0	0	1	1	0	0	0	0
105000	4	10	0	0	3	9	0	0	3	5
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	1	38	0	0	0	0
8477103000	0	0	0	0	0	0	0	0	0	0
106010	1	357	4	280	0	0	13	315	1	49
106050	11	1358	8	272	0	0	53	6395	8	204
200010	0	0	0	0	0	0	1	84	3	95
200050	3	1134	5	59	8	122	25	2693	1	109
300000	0	0	1	57	0	0	14	4205	0	0
400000	0	0	0	0	0	0	14	576	0	0
510010	0	0	0	0	0	0	6	8	0	0
510090	1	142	0	0	1	4	7	134	0	0
590000	0	0	3	130	13	62	11	463	34	596
800000	4	1212	14	255	81	154	125	6639	56	1046
8479899040	1	181	0	0	8	72	5	723	11	70
908040	0	152	0	5	0	306	0	826	0	211
8537100030	0	0	0	0	0	0	123	96	1	3
9024100000	0	15	0	0	0	88	0	27	0	396
9031100000	0	11	0	0	0	10	0	28	0	42
300000	0	0	0	0	0	68	0	60	0	0
9032810020	698	16	0	0	850	5	0	0	5879	55
810060	0	0	11713	24	0	0	14475	76	240	44

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	289	1023	0	0	289	1023
Bulgaria	0	0	0	0	0	0
Czechoslovakia	9	97	0	0	9	97
Denmark	12	27	6	88	18	114
East Germany	8	316	0	0	8	316
Finland	3	34	2	236	5	270
Hungary	0	0	0	0	0	0
Ireland	0	0	0	0	0	0
Luxembourg	0	0	0	0	0	0
Netherlands	16	426	5	42	21	468
Norway	1	12	0	0	1	12
Poland	47	744	0	0	47	744
Portugal	15	62	9	167	24	229
Romania	0	0	0	0	0	0
USSR	1	16	0	0	1	16
Yugoslavia	42	396	0	0	42	396
Oth Europe	6	226	4	105	10	331
TOTAL	5771	55048	777	16958	6548	72006
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	0	0	126	275	126	275
Oth N & C Am.	0	0	0	0	0	0
TOTAL	130	1016	334	5330	464	6346
SOUTH AMERICA						
Argentina	2	13	0	0	2	13
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	83	985	0	0	83	985
OCEANIA						
Australia	39	295	3	114	42	409
New Zealand	0	0	0	0	0	0
Oth Oceania	0	0	0	0	0	0
TOTAL	39	295	3	114	42	409

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
January 90

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	7358	1718	230	49	7588	1767
Hong Kong	71	173	2	5	73	178
India	17	150	0	0	17	150
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	15	715	7	43	22	758
Malaysia	0	0	0	0	0	0
Pakistan	0	0	0	0	0	0
Philippines	0	0	0	0	0	0
Thailand	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	76231	116130	1148	20192	77379	136322
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	12	49	12	49
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	12	49	12	49

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 900000000I, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* Includes code 8456301030, Traveling wire electro-discharge machines, non-NC.

U.S. EXPORTS

Metal Cutting Machine Tools - January 90

RELEASED: April 18, 1990

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	2	213	2	213
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	9	1762	9	1762
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	1	102	1	102
100035	Horiz. mach. ctrs., ATC	2	1139	2	1139
100045	Mach. ctrs., n.e.c.	53	4524	53	4524
200010	Unit construction mach. (single station transfer), NC	0	0	0	0
200090	Unit construction mach. (single station transfer), non-NC	1	89	1	89
300010	Multi-station transfer machines, NC	3	4610	3	4610
300090	Multi-station transfer machines, non-NC	2	200	2	200
8458110010	Horiz. lathes, multiple spindle, NC	4	700	4	700
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	31	2394	31	2394
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	5	1031	5	1031
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	3	738	3	738
190030	Horiz. engine or toolroom lathes, non-NC	21	341	21	341
190050	Automatic bar and/or chucking mach., single spindle, non-NC	1	104	1	104
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	6	166	6	166
190090	Horiz. lathes, n.e.c., non-NC	20	260	20	260
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	2	316	2	316
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	0	0	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	3	907	3	907
991050	Vertical turret lathes, non-NC	0	0	0	0
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	10	242	10	242
8459100000	Way-type unit head machines	4	475	4	475
210080	Other drilling machines, NC	14	1616	14	1616
290040	Drilling machines, multiple spindle, non-NC	4	169	4	169
290050	Drilling machines, radial, non-NC	5	40	5	40
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	6	65	6	65
290090	Drilling machines, n.e.c., non-NC	81	366	81	366
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	1	380	1	380
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	1	83	1	83
310070	Boring-milling mach., n.e.c., NC	1	32	1	32
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	0	0	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	0	0	0	0
400040	Boring machines, vertical, NC	0	0	0	0
400050	Boring machines, vertical, non-NC	8	130	8	130
400070	Boring machines, n.e.c., NC	0	0	0	0
400080	Boring machines, n.e.c., non-NC	2	334	2	334
510080	Milling machines, knee type, NC	2	113	2	113
590030	Milling machines, knee type, non-NC	7	228	7	228
610080	Milling machines, excl. knee type, n.e.c., NC	3	1534	3	1534
690050	Milling machines, profile, dup., or die sinking, non-NC	17	324	17	324
690070	Milling machines, bed type, non-NC	0	0	0	0
690090	Milling machines, n.e.c., non-NC	19	1398	19	1398
700020	Threading or tapping machines, n.e.c., NC	5	108	5	108
700080	Threading or tapping machines, n.e.c., non-NC	17	148	17	148
8460110080	Flat surface grinding mach., NC	3	94	3	94
190010	Flat surface grinding mach., recip.-table type, non-NC	7	211	7	211
190050	Flat surface grinding mach., n.e.c., non-NC	8	1473	8	1473
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	12	4132	12	4132
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	4	214	4	214
290030	Grinding mach., internal cylindrical, non-NC	4	96	4	96
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	55	1972	55	1972
310080	Sharpening machines (tool & cutter grinding), NC	3	99	3	99
390050	Sharpening machines (tool & cutter grinding), non-NC	69	4864	69	4864
400060	Honing or lapping machines, NC	0	0	0	0
400080	Honing or lapping machines, non-NC	32	566	32	566
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	1	413	1	413
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	73	1078	73	1078
8461100060	Planing machines, NC	1	111	1	111
100080	Planing machines, non-NC	62	661	62	661
200010	Shaping or slotting machines, NC	0	0	0	0
200090	Shaping or slotting machines, non-NC	5	225	5	225
300060	Broaching machines, NC	0	0	0	0
300080	Broaching machines, non-NC	2	296	2	296
401050	Gear hobbers	0	0	0	0
401070	Gear shapers	12	1348	12	1348
401090	Gear cutting machines, n.e.c.	10	2569	10	2569
405060	Gear grinding or finishing machines	19	1638	19	1638
500050	Sawing or cutting-off machines, NC	19	701	19	701
500090	Sawing or cutting-off machines, non-NC	131	2998	131	2998
9000000001	Metal cutting machine tools, n.e.c.	70	1705	70	1705
9800000001	Used or rebuilt machine tools	434	5498	434	5498
9900000001	Machine tools valued at less than $2,500	1920	893	1920	893
	Cutting Total			3332	61235
	Y-T-D Cutting Total	3332	61235		
	NC Y-T-D Cutting Total*	206	28806		

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	5	1006
100025	0	0	0	0	0	0	0	0	1	102
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	6	1100	0	0	9	978
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	1	770
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	4	700
110030	0	0	0	0	0	0	0	0	9	724
110050	0	0	0	0	0	0	0	0	1	145
110090	0	0	0	0	0	0	0	0	3	738
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	1	104
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	15	212
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	1	21	0	0	0	0	0	0	2	75
8459100000	0	0	0	0	1	181	2	151	0	0
210080	0	0	0	0	0	0	0	0	2	359
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	4	35
290070	0	0	0	0	0	0	0	0	6	65
290090	0	0	0	0	0	0	0	0	68	310
310010	0	0	0	0	0	0	1	380	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	7	119	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	1	289
510080	1	55	0	0	0	0	0	0	0	0
590030	1	33	0	0	0	0	0	0	3	73
610080	1	1376	0	0	0	0	0	0	1	118
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	2	759	2	39
700020	1	17	0	0	0	0	0	0	0	0
700080	0	0	0	0	1	75	0	0	6	18
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	2	110
190050	0	0	0	0	0	0	0	0	2	840
210080	0	0	0	0	0	0	0	0	5	2243
290010	0	0	0	0	0	0	0	0	1	25
290030	0	0	0	0	0	0	0	0	1	20
290050	0	0	0	0	0	0	15	536	4	107
310080	2	57	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	4	29	12	4502
400060	0	0	0	0	0	0	0	0	0	0
400080	3	45	0	0	0	0	0	0	1	166
900060	0	0	0	0	0	0	0	0	1	413
900080	4	44	0	0	0	0	0	0	16	301
8461100060	0	0	0	0	0	0	0	0	1	111
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	2	38
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	1	68
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	2	679	9	457
401090	0	0	0	0	0	0	1	687	1	487
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	10	565
500090	5	96	0	0	0	0	0	0	34	464
9000000001	0	0	0	0	0	0	1	7	24	157
9800000001	10	343	0	0	0	0	107	293	46	1180
9900000001	21	18	9	6	19	12	0	0	9	13
Month Tot	57	2223	9	6	27	1368	135	3521	326	19130
Y-T-D Tot	57	2223	9	6	27	1368	135	3521	326	19130
NC YTD Tot*	5	1505	0	0	6	1100	1	380	53	8974

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	89	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	2	200
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	1	80	0	0	0	0	0	0
110050	0	0	2	388	2	498	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	2	867	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	4	169	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	1	15	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	1	71	5	562
210080	0	0	3	584	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	1	128	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	3	15	1	6	0	0	5	65
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	1	16	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	1	228	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	1	547	0	0	0	0
405060	0	0	0	0	0	0	0	0	1	920
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	3	68	2	1328	1	9	0	0
9000000001	0	0	21	499	0	0	0	0	0	0
9800000001	0	0	2	9	5	106	0	0	2	48
9900000001	0	0	190	26	8	5	0	0	40	30
Month Tot	1	128	228	1999	26	3543	2	81	55	1825
Y-T-D Tot	1	128	228	1999	26	3543	2	81	55	1825
NC YTD Tot*	0	0	27	1550	4	1365	0	0	0	0

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	1	37	0	0
8457100015	0	0	1	164	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	24	1496	0	0	5	294	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	5	433	1	84	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	7	148	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	5	72	0	0	0	0	0	0	0	0
190090	0	0	2	13	0	0	3	35	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	2	316	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	1	40	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	1	56	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	55	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	5	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	11	49	0	0	1	4	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	1	83	0	0
310070	0	0	0	0	0	0	1	32	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	1	12	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	1	45	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	1	40	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	14	364	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	3	9	0	0
8460110080	2	74	0	0	0	0	1	20	0	0
190010	0	0	0	0	0	0	3	75	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	1	340	0	0	0	0	1	162	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	1	17	0	0
290050	0	0	0	0	0	0	11	236	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	1	7	2	12	1	9	5	33
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	7	79	0	0	2	27	4	61
900060	0	0	0	0	0	0	0	0	0	0
900080	5	50	5	89	0	0	5	73	2	17
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	13	285	23	200	25	156	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	1	168	0	0	1	3	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	1	212	0	0
401090	3	517	0	40	0	0	2	140	0	0
405060	0	0	11	408	0	0	0	0	0	0
500050	0	0	0	0	0	0	7	101	1	16
500090	26	267	7	101	0	0	20	226	6	52
9000000001	4	421	1	30	0	0	14	268	0	0
9800000001	2	10	2	1054	0	0	108	717	32	211
9900000001	387	95	53	37	0	0	611	145	31	15
Month Tot	440	2279	140	4104	25	212	859	4164	81	405
Y-T-D Tot	440	2279	140	4104	25	212	859	4164	81	405
NC YTD Tot*	10	1249	26	1744	0	0	21	1143	1	16

Please see notes on last page of the metal forming section.

U.S. EXPORTS
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	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	5	342	1	91
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	1	38	0	0	0	0	7	468	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	2	25
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	1	57	0	0	22	734	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	15	100	2	7	0	0	1	5	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	7	81	1	18
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	8	93	4	35	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	6	240	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	2	45	0	0
9000000001	0	0	1	268	0	0	2	29	0	0
9300000001	7	421	0	0	2	4	1	23	0	0
9900000001	20	25	0	0	0	0	79	47	6	10
Month Tot	43	583	12	425	12	278	126	1775	10	145
Y-T-D Tot	43	583	12	425	12	278	126	1775	10	145
NC YTD Tot*	1	38	1	268	0	0	12	810	1	91

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - January 90

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	1	176
8457100015	0	0	0	0	0	0	0	0	3	592
100025	0	0	0	0	0	0	0	0	0	0
100035	2	1139	0	0	0	0	0	0	0	0
100045	2	180	0	0	0	0	0	0	1	44
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	2	3840	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	11	720	0	0	0	0	4	353	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	13	183	0	0	0	0	0	0	1	11
190050	0	0	0	0	0	0	0	0	0	0
190070	1	94	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	6	90	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	1	142
210080	0	0	0	0	0	0	1	72	2	623
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	1	3	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	1	57
590030	1	53	0	0	0	0	0	0	2	70
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	17	324	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	1	235	0	0	0	0	0	0	0	0
700020	1	26	0	0	0	0	0	0	3	65
700080	1	15	0	0	0	0	0	0	5	15
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	1	266	1	538
290010	3	189	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	2	59	0	0
290050	0	0	0	0	0	0	0	0	1	174
310080	0	0	0	0	0	0	0	0	1	42
390050	0	0	0	0	0	0	14	85	12	75
400060	0	0	0	0	0	0	0	0	0	0
400080	1	16	0	0	0	0	1	16	5	58
900060	0	0	0	0	0	0	0	0	0	0
900080	2	26	0	0	0	0	6	108	7	157
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	1	19	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	2	150	0	0
405060	0	0	0	0	0	0	1	70	0	0
500050	1	19	0	0	0	0	0	0	0	0
500090	11	130	0	0	0	0	5	80	9	131
9000000001	0	0	0	0	0	0	1	10	1	16
9800000001	13	77	0	0	1	4	54	569	40	432
9900000001	85	61	0	0	0	0	53	43	299	303
Month Tot	157	7092	0	0	1	4	164	2225	396	3721
Y-T-D Tot	157	7092	0	0	1	4	164	2225	396	3721
NC YTD Tot*	19	5924	0	0	0	0	5	691	12	1961

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
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RELEASED: April 18, 1990

Metal Forming Machine Tools		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
8454300010	Die casting machines	16	833	16	833
8462100030	Headers and upsetters, including cold headers	3	2629	3	2629
100050	Forging or die stamping machines, and hammers, n.e.c.	23	2387	23	2387
210080	Bending, folding, straight. or flat. mach., incl presses, NC	34	3682	34	3682
290030	Press brakes, non-NC	27	578	27	578
290040	Bending rolls, non-NC	10	198	10	198
290050	Bending, folding, straight., or flat., n.e.c., non-NC	66	1444	66	1444
310080	Shearing machines, NC	12	1205	12	1205
390050	Shearing machines, non-NC	54	1321	54	1321
410080	Punching or notching mach., incl. comb. punch & shear, NC	14	1356	14	1356
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	27	546	27	546
910060	Hydraulic presses, NC	5	581	5	581
910090	Hydraulic presses, non-NC	77	5806	77	5806
990030	Presses, n.e.c., NC	5	377	5	377
990040	Presses, mechanical, non-NC	16	1550	16	1550
990060	Presses, n.e.c., non-NC	156	3369	156	3369
8463100080	Draw benches for bars, tubes, profiles, wire or the like	9	269	9	269
200080	Thread rolling machines	5	111	5	111
300080	Machines for working wire	57	2807	57	2807
900080	Metal forming machine tools, n.e.c.	178	4954	178	4954
9800000002	Used or rebuilt machine tools	243	5618	243	5618
9900000002	Machine tools valued at less than $2,500	302	215	302	215
	Forming Total			1339	41835
	Y-T-D Forming Total	1339	41835		
	NC Y-T-D Forming Total	70	7201		
	Cutting and Forming Totals: Monthly Total			4671	103070
	Y-T-D Total	4671	103070		
	NC Y-T-D Total*	276	36008		

Other Manufacturing Technology		TOTAL YTD UNITS	TOTAL YTD $000	TOTAL MO. UNITS	TOTAL MO. $000
1000000000	Machine tool parts and accessories	0	58775	0	58775
2000000000	Parts for working rubber or plastics - heading 8477	0	20856	0	20856
2710003070	Quenching or cutting oils	0	674	0	674
8428900010	Industrial robots for lifting, handling, loading or unload	17	532	17	532
8431390090	Parts industrial robots, handling and loading - heading 8428	0	5311	0	5311
8456100000	Laser, light or photon beam for working any material	60	3863	60	3863
200000	Ultrasonic process for working any material	5	105	5	105
8477106010	Injection molding mach., for rubber or oth. thermosetting	12	1558	12	1558
106070	Injection molding mach., for thermoplastics	32	3388	32	3388
200010	Extruders for rubber or other thermosetting materials	24	1751	24	1751
200050	Extruders for processing thermoplastics	85	5472	85	5472
300000	Blow molding machines	33	1683	33	1683
400000	Vacuum-molding and other thermoforming machines	3949	1624	3949	1624
510010	Machines for molding or retreading pneumatic tires	121	1825	121	1825
510090	Machines for molding or otherwise forming inner tubes	34	2963	34	2963
590000	Machines for molding or otherwise forming n.e.c.	176	1942	176	1942
800000	Machines for working rubber or plastics n.e.c.	414	8181	414	8181
8479899040	Industrial robots, n.e.c.	731	7374	731	7374
908040	Industrial robot parts	0	5061	0	5061
8537100030	Numerical controls for controlling machine tools	220	3015	220	3015
9024100000	Machines and appliances for testing metals	0	6893	0	6893
9031100000	Machines for balancing mechanical parts	0	2441	0	2441
300000	Profile projectors	0	1071	0	1071
9032810040	Industrial process control instr., hydraulic or pneumatic	48346	3113	48346	3113

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

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Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	11	0	0	1	6	0	0	2	603
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	67	0	0	0	0	0	0	2	185
210080	1	29	0	0	0	0	0	0	6	912
290030	0	0	0	0	0	0	0	0	25	460
290040	1	8	0	0	0	0	0	0	6	94
290050	0	0	0	0	0	0	0	0	20	376
310080	0	0	0	0	0	0	0	0	1	149
390050	0	0	0	0	0	0	0	0	14	283
410080	0	0	0	0	0	0	0	0	1	195
490050	0	0	0	0	0	0	0	0	10	130
910060	0	0	0	0	0	0	0	0	1	228
910090	0	0	0	0	0	0	0	0	7	388
990030	0	0	0	0	0	0	0	0	3	185
990040	0	0	1	566	0	0	0	0	8	324
990060	0	0	0	0	0	0	0	0	13	170
8463100080	0	0	0	0	0	0	1	28	0	0
200080	0	0	0	0	0	0	0	0	3	61
300080	0	0	0	0	0	0	2	36	4	190
900080	4	101	0	0	0	0	0	0	22	248
9800000002	0	0	0	0	0	0	0	0	39	394
9900000002	0	0	0	0	12	13	0	0	0	0
Month Tot	8	216	1	566	13	20	3	65	187	5577
Y-T-D Tot	8	216	1	566	13	20	3	65	187	5577
NC YTD Tot	1	29	0	0	0	0	0	0	12	1669
C&F Month	65	2438	10	572	40	1388	138	3586	513	24708
C&F Y-T-D	65	2438	10	572	40	1388	138	3586	513	24708
C&F NC YTD*	6	1534	0	0	6	1100	1	380	65	10643

Other Manufacturing Technology

1000000000	0	699	0	53	0	588	0	928	0	15213
2000000000	0	439	0	186	0	440	0	129	0	7952
2710003070	0	25	0	0	0	0	0	0	0	50
8428900010	0	0	0	0	0	0	0	0	9	374
8431390090	0	215	0	31	0	59	0	0	0	950
8456100000	1	67	0	0	0	0	0	0	3	112
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	1	76	0	0	0	0	8	401
200010	0	0	0	0	0	0	0	0	6	252
200050	0	0	0	0	0	0	15	1331	12	699
300000	10	183	0	0	0	0	0	0	2	373
400000	0	0	0	0	0	0	2	336	7	220
510010	0	0	0	0	3	34	0	0	19	458
510090	0	0	0	0	0	0	0	0	0	0
590000	1	18	0	0	4	70	1	17	17	358
800000	1	58	0	0	0	0	0	0	146	5073
8479899040	6	33	0	0	0	0	2	76	495	5321
908040	0	0	0	12	0	0	0	0	0	1343
8537100030	1	21	0	0	0	0	0	0	18	211
9024100000	0	36	0	14	0	18	0	753	0	600
9031100000	0	0	0	0	0	0	0	0	0	510
300000	0	0	0	0	0	0	0	89	0	101
9032810040	1927	99	2428	121	635	32	114	13	1874	80

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	1	5	2	26	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	1	40	0	0	2	741
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	2	59	1	20	0	0	1	7	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	1	31	0	0	0	0	0	0
490050	0	0	0	0	0	0	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	14	476	1	12	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	1	139
990040	1	147	0	0	0	0	0	0	0	0
990060	0	0	0	0	1	7	0	0	0	0
8463100080	0	0	1	55	0	0	0	0	0	0
200080	0	0	0	0	1	26	0	0	0	0
300080	1	454	1	36	0	0	0	0	0	0
900080	0	0	8	202	1	6	0	0	0	0
9800000002	0	0	2	80	5	748	0	0	11	333
9900000002	0	0	7	6	0	0	0	0	7	3
Month Tot	19	1140	24	468	9	828	1	7	21	1215
Y-T-D Tot	19	1140	24	468	9	828	1	7	21	1215
NC YTD Tot	0	0	1	31	0	0	0	0	1	139
C&F Month	20	1268	252	2467	35	4371	3	87	76	3041
C&F Y-T-D	20	1268	252	2467	35	4371	3	87	76	3041
C&F NC YTD*	0	0	28	1581	4	1365	0	0	1	139

Other Manufacturing Technology

1000000000	0	438	0	1345	0	418	0	8	0	1301
2000000000	0	58	0	290	0	802	0	58	0	361
2710003070	0	0	0	0	0	0	0	26	0	0
8428900010	0	0	2	64	0	0	0	0	1	31
8431390090	0	0	0	69	0	0	0	0	0	4
8456100000	0	0	2	662	0	0	0	0	2	46
200000	0	0	1	12	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	1	60
106070	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	1	32	1	98	11	269	0	0	0	0
300000	0	0	0	0	0	0	0	0	3	17
400000	0	0	0	0	0	0	0	0	0	0
510010	0	0	0	0	1	24	49	10	4	74
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	2	39	0	0	0	0	0	0
800000	4	70	0	0	33	521	0	0	3	42
8479899040	0	0	0	0	0	0	0	0	3	40
908040	0	0	0	39	0	0	0	0	0	7
8537100030	0	0	24	332	3	41	0	0	5	69
9024100000	0	750	0	111	0	31	0	35	0	51
9031100000	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	51	0	0	0	0	0	6
9032810040	1111	56	2105	132	106	9	0	0	3701	203

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

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Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	1	3	3	78	0	0
8462100030	2	2073	1	556	0	0	0	0	0	0
100050	5	597	4	285	0	0	2	73	0	0
210080	1	960	4	158	0	0	9	1056	0	0
290030	0	0	0	0	0	0	1	78	0	0
290040	0	0	0	0	0	0	1	26	0	0
290050	2	179	8	131	0	0	6	146	2	193
310080	4	170	2	646	0	0	1	53	4	187
390050	0	0	0	0	0	0	4	137	0	0
410080	0	0	0	0	0	0	3	246	2	355
490050	0	0	0	0	0	0	4	114	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	0	0	8	3660	0	0	34	810	2	21
990030	0	0	0	0	0	0	0	0	0	0
990040	2	261	0	0	0	0	0	0	4	252
990060	2	803	2	67	0	0	121	1183	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	3	20	0	0	0	0	2	109	2	20
900080	8	253	1	155	8	56	59	542	3	16
9800000002	3	52	36	2177	0	0	72	698	0	0
9900000002	38	22	0	0	0	0	83	58	0	0
Month Tot	70	5389	66	7834	9	59	405	5407	19	1045
Y-T-D Tot	70	5389	66	7834	9	59	405	5407	19	1045
NC YTD Tot	5	1130	6	804	0	0	13	1355	6	542
C&F Month	510	7668	206	11938	34	270	1264	9570	100	1450
C&F Y-T-D	510	7668	206	11938	34	270	1264	9570	100	1450
C&F NC YTD*	15	2379	32	2548	0	0	34	2498	7	558

Other Manufacturing Technology

1000000000	0	4442	0	1990	0	497	0	5066	0	462
2000000000	0	373	0	695	0	176	0	1913	0	924
2710003070	0	83	0	30	0	10	0	19	0	39
8428900010	0	0	0	0	3	4	0	0	0	0
8431390090	0	87	0	32	0	0	0	292	0	122
8456100000	19	1883	4	87	0	0	1	27	1	21
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	1	211	0	0	9	1186	0	0
106070	1	85	0	0	0	0	6	1229	1	48
200010	0	0	0	0	0	0	7	423	0	0
200050	2	1874	0	0	0	0	21	509	0	0
300000	0	0	0	0	0	0	10	207	0	0
400000	1	52	0	0	0	0	3872	883	0	0
510010	13	327	0	0	0	0	4	120	0	0
510090	0	0	18	2772	0	0	12	82	0	0
590000	63	36	17	266	0	0	24	498	0	0
800000	9	280	6	94	0	0	63	935	3	103
8479899040	1	17	14	154	0	0	14	207	0	0
908040	0	51	0	3116	0	0	0	3	0	11
8537100030	11	179	7	82	0	0	1	23	0	0
9024100000	0	1025	0	797	0	113	0	52	0	10
9031100000	0	26	0	1195	0	0	0	494	0	0
300000	0	632	0	0	0	0	0	44	0	0
9032810040	438	46	2219	175	0	0	779	108	8958	463

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	1	64
210080	0	0	0	0	0	0	4	194	0	0
290030	0	0	1	41	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	34	0	0	0	0	0	0	7	135
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	22	0	0
410080	0	0	0	0	0	0	5	383	0	0
490050	1	5	0	0	0	0	2	87	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	1	17	0	0	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	1	57	0	0	0	0	4	262	0	0
8463100080	0	0	1	30	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	1	85
900080	0	0	1	169	0	0	1	12	0	0
9800000002	3	100	1	45	0	0	0	0	0	0
9900000002	0	0	0	0	0	0	0	0	0	0
Month Tot	7	213	4	284	0	0	17	960	9	284
Y-T-D Tot	7	213	4	284	0	0	17	960	9	284
NC YTD Tot	0	0	0	0	0	0	9	577	0	0
C&F Month	50	796	16	709	12	278	143	2735	19	429
C&F Y-T-D	50	796	16	709	12	278	143	2735	19	429
C&F NC YTD*	1	38	1	268	0	0	21	1387	1	91

Other Manufacturing Technology

1000000000	0	1072	0	260	0	465	0	1068	0	388
2000000000	0	86	0	27	0	217	0	100	0	95
2710003070	0	24	0	0	0	0	0	27	0	10
8428900010	0	0	0	0	0	0	0	0	0	0
8431390090	0	212	0	3	0	5	0	345	0	0
8456100000	0	0	0	0	0	0	1	31	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106070	0	0	0	0	4	170	0	0	0	0
200010	0	0	0	0	0	0	4	816	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	2	834	0	0	0	0	0	0
400000	0	0	0	0	0	0	1	5	0	0
510010	0	0	0	0	0	0	0	0	0	0
510090	0	0	0	0	0	0	0	0	0	0
590000	0	0	3	34	5	16	6	97	0	0
800000	0	0	1	97	1	23	1	9	0	0
8479899040	24	145	3	102	10	86	0	0	0	0
908040	0	45	0	48	0	6	0	0	0	0
8537100030	0	0	1	8	1	10	2	25	2	22
9024100000	0	52	0	0	0	8	0	64	0	0
9031100000	0	0	0	0	0	0	0	105	0	0
300000	0	22	0	0	0	0	0	49	0	0
9032810040	1632	151	1199	62	0	0	509	28	2491	132

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Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	82	0	0	0	0	0	0	3	19
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	0	0	0	0	5	335
210080	0	0	0	0	1	28	0	0	8	345
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	2	70	0	0	0	0
290050	0	0	0	0	0	0	12	55	4	109
310080	0	0	0	0	0	0	0	0	0	0
390050	25	711	0	0	0	0	2	27	8	141
410080	2	145	0	0	0	0	0	0	0	0
490050	1	4	0	0	0	0	5	129	4	77
910060	1	336	0	0	0	0	0	0	3	18
910090	5	52	0	0	0	0	1	102	4	268
990030	1	52	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	2	55	8	695	2	71
8463100080	0	0	0	0	0	0	0	0	6	156
200080	0	0	0	0	0	0	0	0	1	24
300080	4	173	0	0	1	15	20	1451	16	217
900080	0	0	0	0	0	0	5	262	57	2932
9800000002	13	65	0	0	0	0	12	204	46	722
9900000002	51	45	0	0	0	0	83	33	21	35
Month Tot	105	1666	0	0	6	168	148	2957	188	5467
Y-T-D Tot	105	1666	0	0	6	168	148	2957	188	5467
NC YTD Tot	4	534	0	0	1	28	0	0	11	362
C&F Month	262	8757	0	0	7	172	312	5183	584	9188
C&F Y-T-D	262	8757	0	0	7	172	312	5183	584	9188
C&F NC YTD*	23	6457	0	0	1	28	6	691	23	2324

Other Manufacturing Technology

1000000000	0	7093	0	3	0	299	0	6230	0	8449
2000000000	0	1014	0	0	0	338	0	936	0	3248
2710003070	0	8	0	0	0	0	0	0	0	323
8428900010	1	13	0	0	0	0	1	46	0	0
8431390090	0	453	0	0	0	25	0	15	0	2392
8456100000	6	359	0	0	0	0	1	12	19	556
200000	4	93	0	0	0	0	0	0	0	0
8477106010	1	100	0	0	0	0	0	0	0	0
106070	1	85	0	0	0	0	7	1195	3	100
200010	2	40	0	0	1	40	0	0	4	181
200050	0	0	0	0	0	0	1	30	21	629
300000	1	11	0	0	0	0	1	12	4	46
400000	1	120	0	0	0	0	0	0	65	7
510010	1	73	0	0	0	0	0	0	27	704
510090	0	0	0	0	0	0	3	69	1	41
590000	13	199	1	15	0	0	15	224	4	53
800000	8	27	0	0	88	29	11	26	36	795
8479899040	38	224	1	46	0	0	79	583	41	340
908040	0	283	0	0	0	3	0	51	0	44
8537100030	102	1425	0	0	0	0	12	153	30	414
9024100000	0	449	0	207	0	16	0	1132	0	570
9031100000	0	25	0	0	0	8	0	3	0	74
300000	0	3	0	0	0	0	0	69	0	3
9032810040	4380	270	3	17	1504	144	1110	107	9123	664

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	2	155	0	0	2	155
East Germany	0	0	1	80	1	80
Finland	11	13	0	0	11	13
Greece	0	0	0	0	0	0
Hungary	0	0	0	0	0	0
Iceland	0	0	0	0	0	0
Ireland	1	150	6	43	7	193
Luxembourg	0	0	0	0	0	0
Norway	5	9	2	16	7	25
Poland	13	14	8	345	21	359
Portugal	0	0	2	50	2	50
Romania	0	0	0	0	0	0
Sweden	8	5	18	165	26	170
Turkey	1	5	1	4	2	9
Yugoslavia	2	712	1	50	3	762
Oth Europe	0	0	0	0	0	0
TOTAL	788	16687	374	8974	1162	25661
NORTH AND CENTRAL AMERICA						
Bahamas	0	0	0	0	0	0
Barbados	0	0	0	0	0	0
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	2	14	0	0	2	14
Dominican Rep	0	0	6	156	6	156
El Salvador	0	0	5	82	5	82
Guatemala	7	13	1	24	8	36
Haiti	0	0	1	9	1	9
Honduras	60	334	0	0	60	334
Jamaica	0	0	0	0	0	0
Panama	0	0	2	42	2	42
Trinidad	0	0	0	0	0	0
Oth N & C Am.	7	68	1	3	8	71
TOTAL	1261	23723	608	11300	1869	35022
SOUTH AMERICA						
Argentina	0	0	2	33	2	33
Bolivia	0	0	0	0	0	0
Chile	15	661	4	3	19	664
Colombia	4	77	13	317	17	394
Ecuador	1	8	0	0	1	8
Paraguay	0	0	0	0	0	0
Peru	3	18	1	24	4	42
Uruguay	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	159	4289	29	610	188	4899
OCEANIA						
New Zealand	14	115	1	55	15	170
Oth Oceania	0	0	0	0	0	0
TOTAL	71	2338	9	271	80	2609

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	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	0	0	0	0
Hong Kong	193	395	19	137	212	531
Iran	0	0	0	0	0	0
Iraq	1	4	45	2421	46	2425
Israel	12	293	22	450	34	743
Jordan	0	0	0	0	0	0
Kuwait	0	0	0	0	0	0
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	1	57	0	0	1	57
Philippines	2	28	4	223	6	251
Qatar	0	0	0	0	0	0
Saudi Arabia	8	83	13	555	21	637
Sri Lanka	2	52	0	0	2	52
Syria	0	0	0	0	0	0
United Arab Emr	0	0	0	0	0	0
Vietnam	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	1032	13760	310	20500	1342	34260
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	0	0	7	117	7	117
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	0	0	0	0	0	0
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	21	439	2	63	23	502
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	21	439	9	180	30	619

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.